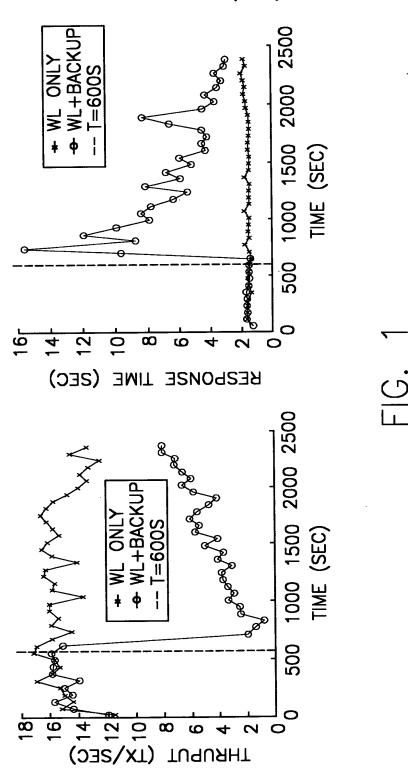
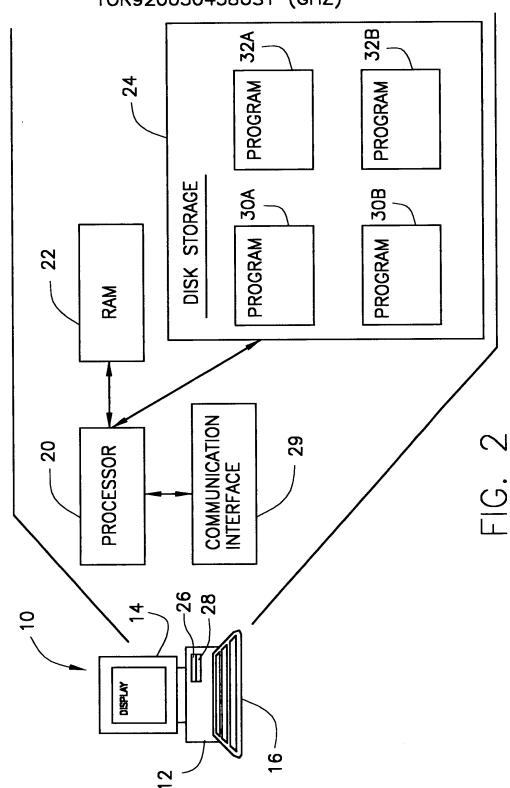


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2/14 HURAS ET AL. YOR920030458US1 (GHZ)



3/14 HURAS ET AL. YOR920030458US1 (GHZ)

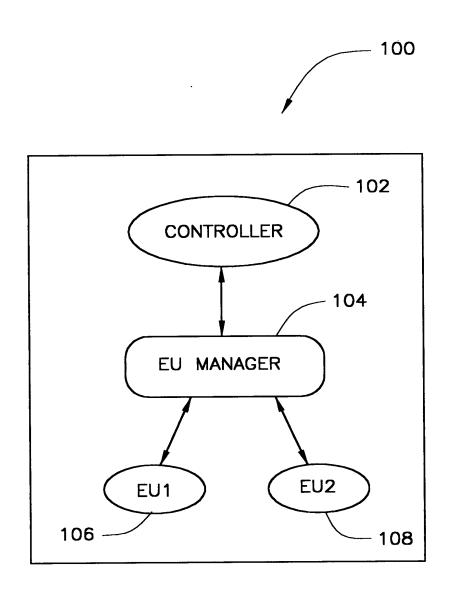
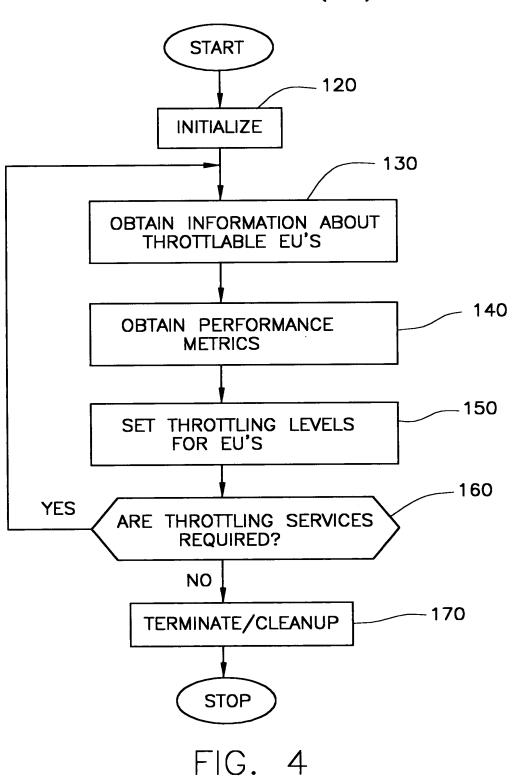


FIG. 3

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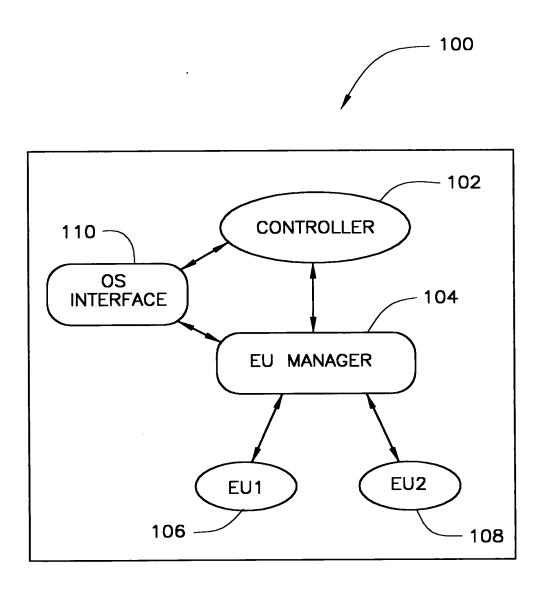


FIG. 5

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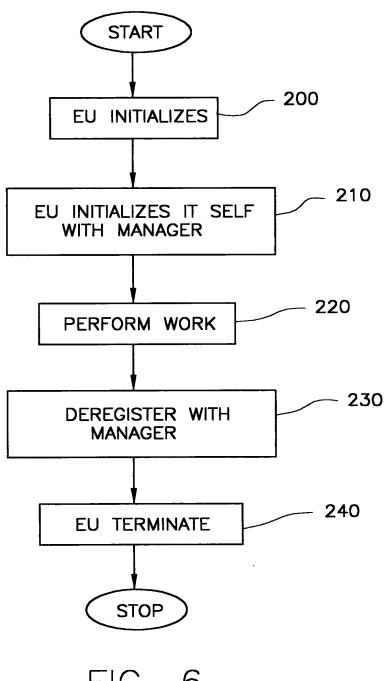
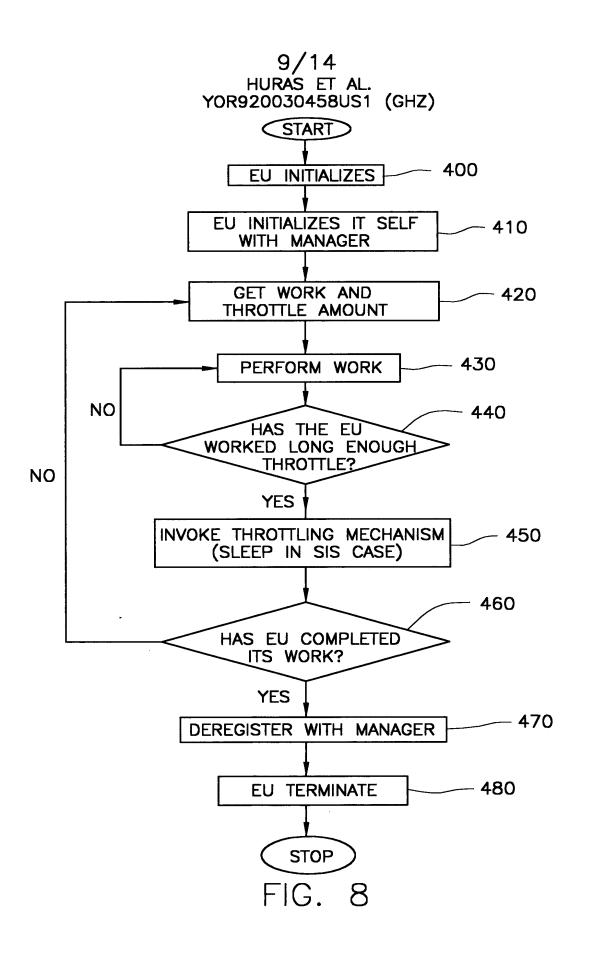


FIG. 6

7/14 HURAS ET AL. YOR920030458US1 (GHZ) START 500 REGISTER MYSELF WITH EU MANAGER 510 GET LIST OF EU'S REQUIRING THROTTLING 520 GET THROTTLING LEVEL TO APPLY YES 530 APPLY CONTROL TO EU'S 540 DO EU'S EXIST WHICH REQUIRE THROTTLING? NO 550 DEREGISTER WITH **MANAGER** STOP FIG. 6B

8/14 HURAS ET AL. YOR920030458US1 (GHZ) **START** 280 EU INITIALIZES EU INITIALIZES IT SELF 290 WITH MANAGER 300 PERFORM WORK **310** GET THROTTLING LEVEL NO 320 THROTTLE IF **NECESSARY** 330 HAS EU COMPLETED ITS WORK? YES] 340 DEREGISTER WITH **MANAGER** 350 EU TERMINATE STOP FIG. 7



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```
COMPONENT ThrottleAgent
BEGIN
EUManager->RegisterThrottleAgent();
While (EUManager->IsThrottlingRequired())
BEGIN
EUList=EUManager->GetListOfEUs(self);
ThrottlingLevels=EUManager->GetThrottlingLevel(EUList);
...apply ThrottlingLevel to EUs In EUList....
END
EUManager->DeregisterThrottleAgent();
END
```

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```
COMPONENT EU
BEGIN
...Initialization...
EUManager—>RegisterEU(...args...);

While(NOT Done)
BEGIN
...Do some work...
ThrottlingLevel=EUManager—>GetThrottlingLevel(self);
Throttle(ThrottlingLevel);
END
...Termination...
EUManager—>DeRegisterEU();
END
```

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```
FUNCTION Utility()
BEGIN
WHILE (NOT done)
BEGIN
...do some work...
Throttle If Needed()
END
END
```

(a) Inserting SIS point

```
FUNCTION Throttle If Needed()
BEGIN

(workTime, sleepTime) = GetThrottlingLevel();
timeWorked = Now() - workStart;
IF (timeWorked > workTime)
SLEEP ( sleepTime );
workStart = Now();
ENDIF
```

(b) SIS implementation

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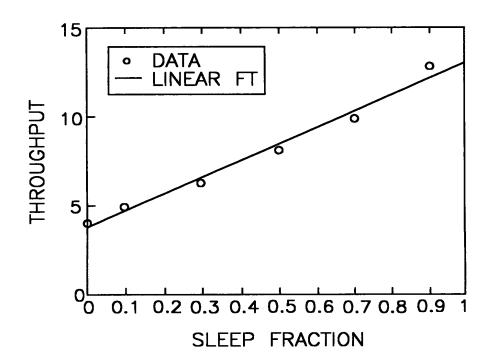


FIG. 12

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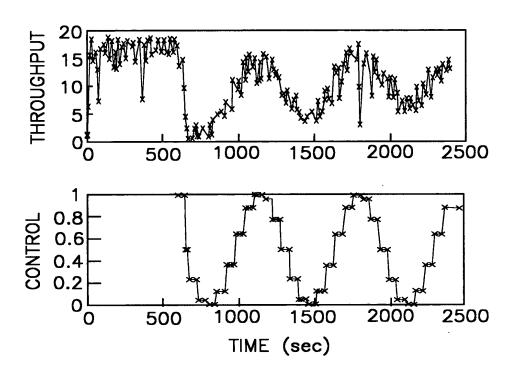


FIG. 13